IN THE INTERNATIONAL BUREAU OF WIPO

Applicant: International Business Machines

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For: A METHOD AND APPARATUS FOR PROVIDING QUALITY OF SERVICE TO VOIP OVER 802.11 WIRELESS LANS

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LETTER (SECTION 205(b))

This is an amendment under Article 19. Replacement sheets for pages 20 and 21 are attached hereto.

Two claims 23 have been replaced by amended claims 23 and 24. Claim 24 has been replaced by new claim 25. Claim 26 has been replaced by an amended claim bearing the same number. All other claims remain unchanged.

Respectfully submitted,

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21. The method of claim 1, further comprising if the called party sends an acknowledgement message to a calling party in response to receiving the invite message, moving at least one of the calling party and the called party to a new access point in a same IP subnet, and adding the at least one of the calling party and the called party to the polling list of the new access point.

22. The method of claim 1, further comprising if the called party sends an acknowledgement message to a calling party in response to receiving the invite message, moving at least one of the calling party and the called party to a new access point in a different IP subnet, adding the at least of one of the calling party and the called party to the polling list of the new access point, and sending a re-invite message to at least one of the calling party and the called party.

23. The method of claim 22, wherein sending a re-invite message to at least one of the calling party and the called party comprises sending a SIP RE-INVITE message to at least one of the calling party and the called party.

24. The method of claim 1, wherein sending packets to and receiving packets from the calling party during a contention-free period of the access point comprises sending packets to the access point, wherein the access point forwards the packets to at least one of the called party and the calling party.

25. The method of claim 24, wherein sending packets to the access point further comprises sending packets from the access point to a voice VLAN via a wireline network, wherein the wireline network is a switched network.

26. The method of claim 25, wherein sending packets to the access point further comprises sending packets from the access point to a voice VLAN via a wireline network, wherein the wireline network is a switched ethernet.

27. The method of claim 26, wherein sending packets from the access point to a voice VLAN via a wireline network further comprises sending packets from the access point to a voice VLAN via a wireline network using packet level quality-of -service techniques.

28. The method of claim 27, wherein sending packets from the access point to a voice VLAN via a wireline network using packet level quality-of -service techniques comprises sending packets from the access point to a voice VLAN via a wireline network using Differentiated Services.

29. A machine-readable medium having instructions stored thereon for execution by a processor to perform a method for providing quality-of-service to VoIP over a wireless local access network, comprising:

sending an invite message from a calling party to a SIP proxy server;

determining whether voice slots are available on an access point; and

forwarding the invite message from the SIP proxy server to a called party, and